Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the

application.

**Listing of Claims:** 

Please cancel claims 10-24 without waiver or prejudice.

1. (Original) A method for fabricating a taper, comprising:

disposing a semiconductor waveguide on a substrate;

forming a protective layer on the semiconductor waveguide;

removing a portion of the protective layer to expose a portion of the semiconductor

waveguide, the exposed portion of the semiconductor waveguide defining a footprint of the taper;

and

forming a semiconductor layer on the exposed portion of the semiconductor waveguide to

form the taper, the taper having a termination end and a longitudinal axis, wherein the termination

end has at least one unetched surface that is angled relative to the longitudinal axis.

2. (Original) The method of claim 1 wherein the semiconductor waveguide is formed

using a silicon on insulator (SOI) wafer.

3. (Original) The method of claim 1 wherein the protective layer comprises an oxide.

4. (Original) The method of claim 1 wherein the semiconductor layer is formed using a

selective silicon epitaxy process.

-2-

5. (Original) The method of claim 4 wherein the semiconductor layer is formed into the

taper without etching the semiconductor layer.

6. (Original) The method of claim 4 wherein the semiconductor layer has a sloped upper

surface.

7. (Original) The method of claim 6 wherein the sloped upper surface is formed without

etching the semiconductor layer.

8. (Original) The method of claim 1 wherein forming the semiconductor layer comprises

depositing semiconductor material on the protective layer and the exposed portion of the

semiconductor waveguide, followed by chemical mechanical polishing to expose the

protective layer.

9. (Original) The method of claim 1 wherein a insulator layer is disposed beneath the

semiconductor waveguide.

Claims 10-24 (Cancelled).

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- 3 -